Grant Agreement No.: 637261

Project acronym: E2VENT

Project title: Energy Efficient Ventilated Facades for Optimal Adaptability and Heat Exchange enabling novel NZEB architectural concepts for the refurbishment of existing buildings

Research and Innovation Action

Topic: EeB-02-2014 Adaptable envelopes integrated in building refurbishment projects

Starting date of project: 1st of January 2015

Duration: 42 months

D7.3 – Project description, leaflet and presentations

Organisation name of lead contractor for this deliverable: FENIX		
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Dissemination Level		
PU	Public	X
CO	Confidential, only for members of the consortium (including the Commission Services)	

Document history

History			
Version	**Date**	**Author**	**Comment**
1	25.6.2015	FENIX	Document created
2	28.6.2015	NOBATEK	Document review

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Executive Summary

The Deliverable D7.3 is a public document of the E2VENT project, delivered in the context of WP7 Dissemination, Task 7.2 Communication material and Promotion. The objective of WP7 is to secure the successful dissemination of the E2VENT project through the implementation and deployment of an awareness and dissemination plan.
The purpose of this document is to describe the activities that were carried on during the first six months of the E2VENT project in order to prepare and support the project dissemination material, in particular including project description, leaflet, poster, and project presentation. The document describes in detail different types of dissemination materials produced, process and players that have contributed to their preparation.

1 Introduction

E2VENT project will develop, demonstrate and validate a cost effective, high energy efficient, low CO2 emissions, replicable, low intrusive, systemic approach for retrofitting of residential and commercial buildings, able to achieve NZEB retrofit standard levels, through the integration of an innovative adaptive ventilated façade system, including embedded, breakthrough smart modular heat recovery units, which allow thermal storage mode and cost-effective, easy to install, high performance adapted products for external thermal insulation.

The Deliverable D7.3 is a public document of the E2VENT project, delivered in the context of WP7, Task 7.2 Communication material and Promotion. The objective of WP7 is to secure the successful dissemination through the implementation and deployment of an awareness and dissemination plan to identify and organise the activities to be performed in order to promote the commercial exploitation of the project's results and the widest dissemination of knowledge from the project. The plan is expanded in two directions: towards the marketing activities in order to enhance the commercial potential of the system and towards the notification of project's results in the scientific, EC and general RTD sector.

A relevant part of the dissemination activities foreseen in the project depends on the production of high quality dissemination material able to communicate project results and activities to the target audience. For this purpose group of initial dissemination tools were developed to support communication and dissemination, and in particular:

- Project leaflet
- Project roll-up poster
- Project description
- PowerPoint presentation

This document describes the delivered material that has been produced during the first six months of the E2VENT project.

2 Dissemination material

For the first six months of the project initial dissemination material has been developed to support communication and dissemination activities of the E2VENT project as part of the task T7.2 Communication material and Promotion. The dissemination material was created preferably in English language and will be updated every six months after the each project meeting following the project progression, considering the future translation to partners' mother language. All dissemination material has been uploaded into E2VENT project website.

2.1 Project logo

Initial task for the dissemination material design is logo development, which has been created in vector resolution at the beginning of the project in order to define a project identity, and clearly to identify any kind of internal or public document (deliverables, reports, internal communications, publications, etc.).
The corporate image of E2VENT rests upon the use of two color tones dark and two color tones light (dark blue and red indexed by RGB 13, 22, 80 and RGB 156, 1, 5; light blue and red indexed by RGB 109, 116, 151 and RGB 194, 103, 106) and their shading, font used is Century Gothic. The logo captures the main theme of two arrows representing the air ventilation.

Picture 1 : Home section

Project logo can be used in the following cases:

- in all documents developed under the framework of the E2VENT project; in documents to be submitted to the EC (e.g. deliverables)
- in project presentations and in dissemination material to be used for communication and dissemination activities carried out by each project participant under the framework of the project
- in E2VENT website, and in websites of the project participants with a link to the project website

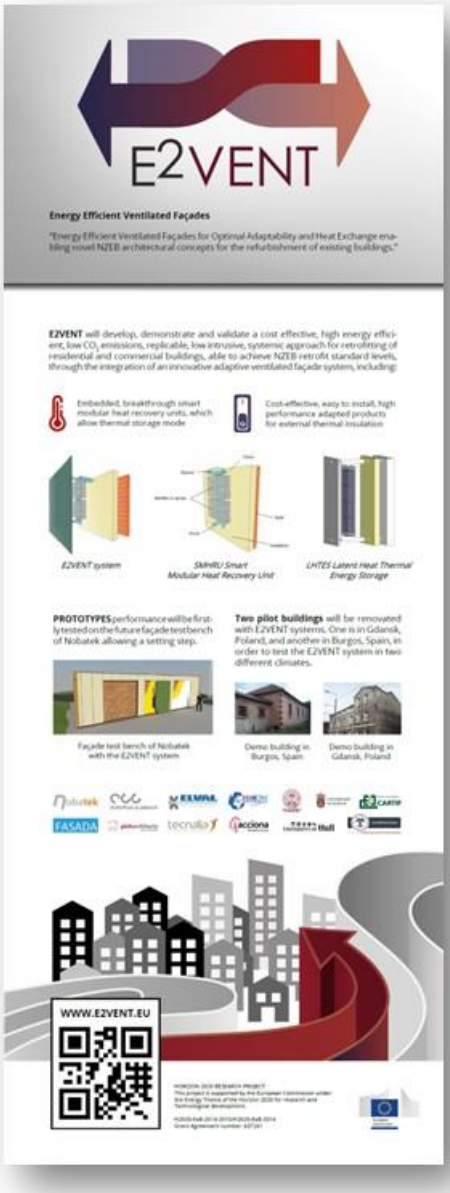
2.2 Project leaflet

The four pages leaflet (format A5, 210x147) has been designed for the E2VENT project by the end of month 6 with more general overview about the project by FENIX who is responsible for any dissemination update related to any progress of the project.
The leaflet is describing project goals, environmental, technical and architectural targets, social and environment impact, innovative components which will be developed within the project, prototype and pilot information, website link and qr code, logos of partners and statement of financial support to indicate that the foreground was generated with the assistance of financial support from the Community.
Following the project evolution also scientific leaflet is planned to be developed for the specific target audience.

Picture 2 : project leaflet

2.3 Project roll-up poster

The one page roll-up poster (format 85x220) has been designed for the E2VENT project by the end of month 6 following the leaflet design by FENIX. The roll-up poster is describing project goals, innovative components which will be developed within the project, prototype and pilot information, website link and qr code, logos of partners and statement of financial support to indicate that the foreground was generated with the assistance of financial support from the Community.



Picture 3 : Project roll up poster

2.4 Project description

The two pages project description in the form of flyer has been designed for the E2VENT project by the end of month 3 following the leaflet and poster design by NOBATEK, describing context and concept of the project, prototype and pilot information, website link and qr code, logos of partners and statement of financial support to indicate that the foreground was generated with the assistance of financial support from the Community.

Picture 4 – project description

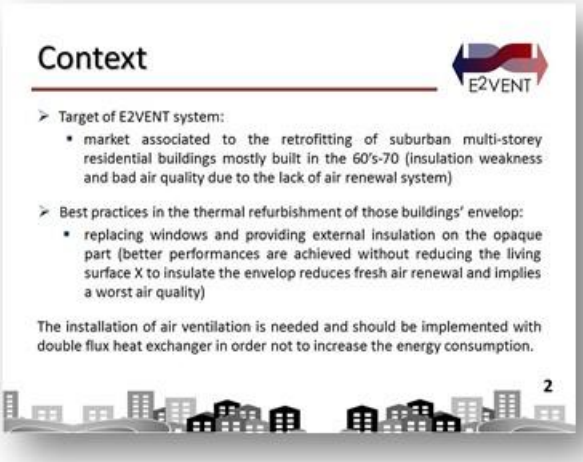
2.5 PowerPoint template

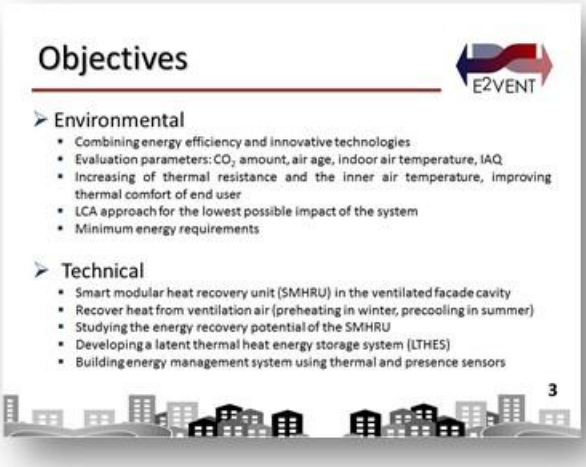
For the purpose of various presentations during the project life simple PowerPoint template has been created.

Picture 4: Powerpoint template

2.6 PowerPoint project presentation

The project presentation in PowerPoint has been designed for the E2VENT project by the end of month 6 following the leaflet and poster design by FENIX, describing context and concept of the project, objectives, prototype and pilot information, website link and qr code, partners and statement of financial support to indicate that the foreground was generated with the assistance of financial support from the Community.





Objectives

- Architectural
  - Modular ventilated facade system (avoiding onsite installation mistakes, performance loses)
  - Easy and affordable access for maintenance jobs or all technologies and components
  - High adaptability degree (different scenarios and climate zones)
  - Improving aesthetic of the building, increasing its economic and social value
  - Increasing durability of the envelope, raising life expectancy of the building

4

Concept

- The E2VENT system is an external thermal refurbishment solutions with external cladding and air cavity (figure 1).
- The **Smart Modular Heat Recovery Unit** allows to recover energy from the extracted air while performing the air renewal using double flux heat exchanger in the air cavity (figure 2).
- This way the E2VENT system enhances the energetic performance of the building and fresh air renewal does not decrease it.

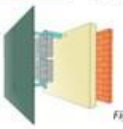


Figure 1

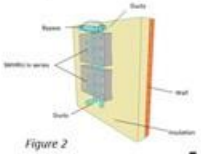


Figure 2

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Concept

- Aiming at providing a heat storage system for the reduction of peak of electricity consumption and/or for cooling in summer, a **Latent Heat Thermal Energy Storage** based on phase change materials properties may be implemented if needed (figure 3).

Figure 3

- Developed technologies will be implemented into the ventilated façade, and a **smart façade management system** will control the system functioning on a real time basis. The management system will communicate with existing systems, recovering predicted weather data and allowing its integration in a global control system targeting optimal performances.

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Impact

The retrofitting kit to be developed is expected to have a payback period of less than 7 years. Actions to be carried out:

- To develop new energy efficient dynamical technologies
- To integrate developed technologies and components as a perfect fabrication kit, keeping modularity which allows industrialised adaptable solutions and the possibility of the system to be specifically designed for different buildings, in a cost-effective way.

- Industrial and market impact - stimulating the retrofitting sector in Europe, providing a holistic approach for building retrofitting, resulting in a cost effective retrofitting solution.
- The system will be designed to guarantee user acceptability, focusing on non intrusiveness and cost-effectiveness with a minimum payback period.
- The predicted impact is a 40% reduction of primary energy needs and of CO_2 production and a global reduction of energy needs in order to achieve in fine a 25 kWh/m²/an primary energy consumption.

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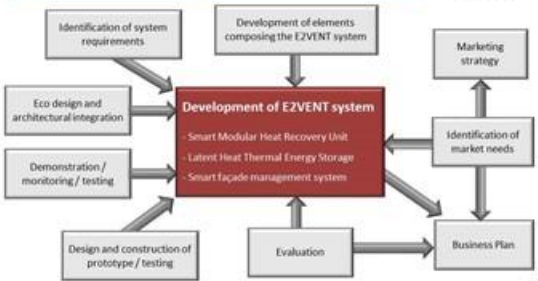
Work Plan



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Demonstration

- Prototypes performance will be firstly tested on the future façade test bench of Nobatek allowing a setting step.
- Two pilot buildings will be renovated with E2VENT systems (Gdansk - Poland, Burgos - Spain) to test the E2VENT system in two different climates.

Overview of the façade test bench of Nobatek with the E2VENT system

View of the demo building in Gdansk, Poland

View of the demo building in Burgos, Spain

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Picture 5 : Project presentation in powerpoint

3 Future work

- Scientific leaflet creation
- Dissemination material translation to partners' language
- Continous update of dissemination material based on the project progress
- Newsletter design
- Project promo video creation

4 Conclusion

All dissemination material - flyer, leaflet, poster and project presentation has been designed and created with intention of every 6 months update following the project progress and can be found on the project website public section - documents. Scientific leaflet is planned to be created besides the commercial one for the specific target audience. Dissemination material has been created preferably in English language, considering future translation in partners' mother language.